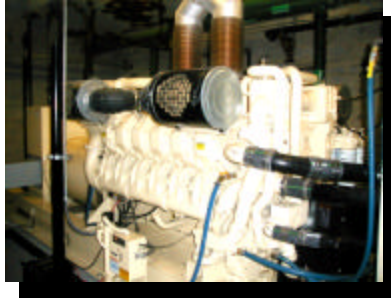


# **Public Hearing to Consider the Adoption of the Airborne Toxic Control Measure to Reduce Diesel Particulate Matter Emissions from Stationary Engines**

**(Continued from the December 11, 2003 ARB Board Meeting)**



**February 26, 2004**



**California Environmental Protection Agency**

**Air Resources Board**

## **ATCM Development Process**

- **Began process in 2001**
- **Held eight Public Workshops**
- **Coordination with CAPCOA Working Group**
- **Ongoing consideration of verbal  
and written comments**
- **Two Public Board Meetings: November and  
December 2003**

## **Objectives in Developing the Proposed ATCM**

- **Establish diesel PM emission standards or engine operational limits that are based on the use of best available diesel PM control technologies and lowest-emitting diesel engines**
- **Consider contribution to overall ambient PM and risk levels, potential near source risk, and the cost of controls when establishing emission standards or operational limits**

## **ATCM Requirements Can Be Met Through The Use of Best Available Control Strategies**

- **Restrict Operation**
  - ◆ **Maintenance and Testing Hours of Emergency Standby Engines**
- **Retrofit**
  - ◆ **DOCs and DPFs**
- **Replace**
  - ◆ **New Off-Road Certified Engines**
- **Retire**
  - ◆ **Non-Diesel Alternatives**

## **Estimated Cost Impacts Associated with Compliance Options**

### **■ Capital Costs**

- ◆ Diesel Particulate Filter: \$38/hp
- ◆ Diesel Oxidation Catalyst: \$10/hp
- ◆ New Engine: \$93/hp

### **■ Cost Savings for Emergency Standby Engines**

- ◆ Reduce hours of operation: fuel savings

### **■ Cost-Effectiveness**

- ◆ \$15/lb. of diesel PM reduced

## **Air Quality Benefits Include Reduced Diesel PM and Criteria Pollutant Emissions**

- An 80% reduction in diesel PM by 2020
- Avoid 121 premature deaths
- Reduced cancer risk to all receptors reduced

## **Summary of Proposed 15-Day Changes**

### **■ Additional Language Addressing**

- ◆ Engines Near Schools
- ◆ Remote Engines
- ◆ Demand Response Engines

### **■ Modifications to Existing Language**

- ◆ Exemption for Nuclear Facilities
- ◆ Exemption for Turbine Starter Engines
- ◆ Other Changes

### **■ Clarifications and Corrections**

- ◆ District-Specific Phased-In Compliance Schedule
- ◆ Use of Emergency Standby Engines During Maintenance of Power Distribution Equipment

## **Proposal for Stationary Engines Near Schools**

- **Emergency standby engines located near or at schools not permitted to conduct maintenance and testing operation during school hours**
  - ◆ “School” limited to Kindergarten through Grade 12
  - ◆ “Near” means within 500 feet
  - ◆ “School hours” means 7:30 a.m. to 3:30 p.m.
- **Restriction does not apply if engine emits diesel PM emissions at a rate of 0.01g/bhp-hr or less**

## **Stationary Engines in Remote Locations**

- District may allow for implementation delay for engines in remote locations
- “Remote Location” means greater than 1 mile from any receptor location
- Delay applies only to in-use prime engines
- Additional risk-based criteria established to ensure public health protection

## **Stationary Engines Used in Demand Response Programs**

- Demand Response Programs allowed under the proposed ATCM are only triggered if blackouts are imminent or already triggered
- Emergency standby engines will be allowed to be used in two types of DRPs
  - ◆ Interruptible Service Contracts (ISC)
  - ◆ SDGE’s Rolling Blackout Reduction Program (RBRP)
- Engines enrolled in these DRPs will
  - ◆ Meet stringent emission limits
  - ◆ Be limited in their hours of operation
  - ◆ Be subject to additional recordkeeping requirements
  - ◆ RBRP engines dispatched into service taking into account public health impacts

## **Modifications to Exemption for Emergency Standby Engines Operating at Nuclear Facilities**

- The exemption for emergency standby engines used for the safe shutdown of nuclear facilities is no longer contingent on meeting “additional criteria” defined by the District

## **ARB Staff Proposes Exemption for Turbine Starter Engines**

- Diesel engines needed to start large CNG turbines
- Existing exemption for low-use prime engines too restrictive at 20 hours per year
- Turbine starter exemption would allow additional hours at the District’s discretion

## **ARB Staff is Proposing Language to Clarify That the Compliance Schedule is District-Specific**

- Current language allows owners of three or more engines to phase-in compliance over more than one year
- Proposed language will clarify that phased-in compliance will be allowed for owners of three or more engines located within the same district.
  - ◆ Each District will implement and enforce its own rule based on the ATCM
  - ◆ No mechanism to coordinate compliance amongst different Districts

## **Other Changes**

- Extending the District's maximum review time for approving or disapproving RBRP Dispatch protocols
- Extending the training-engine exemption to the Marine Corps and the Coast Guard
- Allowing for the limited use of emergency standby fire-pump engines for training purposes
- Clarifying how the ATCM addresses the operation of emergency standby engines during power transmission equipment maintenance operations

## **Staff's Recommendation**

- **Approve the proposed ATCM  
with 15-day changes**